

CellPipe® 22A Series



When you need to offer cost-effective high-speed DSL access, the CellPipe® 22A is an ideal CPE platform for your small business and residential customers. This router/bridge solution uses ADSL technology to deliver speeds up to 8 Mbps, which supports a full set of “always-on” Internet, data and video services. The CellPipe® 22A also gives you QoS capabilities for reliable high performance and supports robust routing and management features that streamline operations.

Applications

- High-performance data services, including intranets, extranets, videoconferencing, network gaming, VoIP, Web hosting and fast Internet access
- Leading-edge video services, including streaming multimedia, broadcast TV, pay-per-view and video-on-demand—enabling today’s first full-service networks
- Small businesses and residences, including SOHOs, Multiple Dwelling Units, Multiple Tenant Units and other in-building installations

Features

- **High speed, high bandwidth**—Provides high-speed connections over a single copper pair with data rates up to 8 Mbps downstream and 1 Mbps upstream
- **Multi-service support**—Enables a broad range of advanced video and data services, including high-speed Internet access (Basic POTS service can be supported using voice splitters)

- **Easy LAN connectivity**—Simplifies service start up: the CellPipe® 22A-GX and 22A-BX provide one 10BaseT LAN interface and one USB interface which can be used simultaneously while connected to two different computers. The CellPipe® 22A-EX and 22A-FX offer 4 10BaseT LAN interfaces with an Ethernet switch on board
- **Multiple Annex A models for ADSL over POTS**—CellPipe® 22A-GX and CellPipe® 22A-EX for North America, CellPipe® 22A-GX-E and CellPipe® 22A-EX-E for Europe and CellPipe® 22A-GX-UK and CellPipe® 22A-EX-UK for United Kingdom
- **Various Annex B models for ADSL over ISDN for use in Europe**—CellPipe® 22A-BX and CellPipe® 22A-FX
- **Quality of Service capabilities**—including UBR, CBR and VBR, enable premium services backed by SLAs
- **Multi-protocol support**—Offers flexibility and investment protection

- **Simple configuration**—Includes a Web-based GUI for ease of use—and eliminates the hassle of ATM protocol configuration
- **“Always-on” connection**—Delivers high-speed access with no log-on or dial-in

Benefits

- **Reduced costs**—Cut overhead and deployment costs by leveraging the existing infrastructure and streamlining deployment
- **Application flexibility**—Support a full spectrum of carrier-class data and video services—while maintaining POTS with voice splitters
- **Unlimited potential**—Expand and upgrade seamlessly as new applications emerge
- **Increased speed**—Deliver data rates up to 200 times faster than traditional dial-up modems
- **Boost user efficiency**—Provide continuous high-speed “always-on” connections to multimedia applications



Specifications

Hardware Specifications

- 1. Dimensions**
7.1 in x 5.7 in (18 cm x 14.5 cm)
- 2. Weight**
11 ounces (300 grams)
- 3. LAN Interface**
22A-GX / 22A-BX: 1 USB port and 1 10/100 Ethernet Port
22A-EX / 22A-FX: 4 port 10/100 Ethernet Switch
- 4. Operating Environment**
Temperature: 32 – 120°F (0° – 50°C)
Humidity: 5 – 95% non-condensing
- 5. Power Requirement**
AC Voltage: 100 – 120 VAC, 200 – 240 VAC
Frequency: 50/60 Hz
Power Consumption: 15 W maximum
- 6. Safety Compliance**
UL 1950, CSA C22.2, EN60950
- 7. EMC/RFI Compliance**
FCC Part 15 Class B, EN55022/CISPR 22 Class B, EN50082-1, CE, VCCI
- 8. WAN Interface**
One ADSL interface (RJ-11 jack for annex A models, RJ 45 for annex B models)
- 9. Line Impedance**
100 ohms
- 10. Line Code**
DMT
- 11. Compliance**
ANSI T1E1.413 issue 2, ITU-T G.DMT (G.992.1 annex A or annex B), G.Lite (ITU G.992.2)
- 12. Line Speed**
Full Rate (G.DMT): 8 Mbps downstream, 1 Mbps upstream
G.Lite: 1.5 Mbps downstream, 512 Kbps upstream
- 13. Analog Line Support**
Supports the use of an external splitter

Software Specifications

- 1. ATM/ADSL**
G.DMT, T1.413 i2 /Fast and Interleaved
Trellis Code
AAL5
UBR/GFR
CBR
VBR
Multiple VCs Support
UNI 3.1/4.0, SVC
OAM F4/F5 Loopback
- 2. Bridging/Routing**
802.1d Transparent, Learning Bridge
Spanning Tree (STP)
RFC 2684 – Bridged
RFC 2684 – Routed
PPPoE
PPPoA
IPoA
IPv4, TCP, UDP, ICMP, ARP
RAPR as per RFC 0903
Virtual IP Interface
IP Routing – RIP v1 and v2
Static Routing
DHCP Server/Client/Proxy
DNS Proxy
IP Multicast, IGMP Proxy
- 3. Security**
NAT
PPP with PAP/CHAP
Raw/IP Filtering
SPI
VPN: L2TP/PPTP Pass Through
DoS
ID/Password Authentication

4. Management

SNMP v1 and MIB II (RFC 1213)
HTTP Server
Auto VCI/VPI Detect
Command Line Interface
FTP, TFTP
TELNET
ZIPB (Zero Installation PPP Bridge Mode)
Surfing Profile
Layer 2 Management Protocol (without IP)
LEDs
TR-37
Dying Gasp

5. Host USB Drivers (22A-GX)

Windows 98SE, 2000, ME, XP
Concurrent USB and Ethernet

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